

CLAIMS

1. A closed type device, comprising:

a heat radiating structure; and

5 a casing for encapsulating incorporated equipment,
wherein the heat radiating structure includes a
ventilation hole formed in the casing and a composite sheet
attached to the casing so as to cover the ventilation hole,
and the composite sheet includes an outer sheet having air
10 permeability, waterproofness and dustproofness, an inner
sheet having air permeability, and a layer of activated
carbon being sandwiched between the outer and inner sheets,
the composite sheet being attached to the casing with the
outer sheet facing outward and inner sheet facing inward.

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2. The closed type device as claimed in claim 1,
wherein the outer sheet includes at least one fine-hole sheet
having a large number of fine pores.

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3. The closed type device as claimed in claim 1,
wherein the outer sheet includes at least one fine-hole sheet
having a large number of fine pores and at least one another
sheet having air permeability.

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4. The closed type device as claimed in claim 1,
wherein the inner sheet is a non-woven fabric.

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5. The closed type device as claimed in claim 1,
wherein the inner sheet includes at least one fine-hole sheet
having a large number of fine pores.

6. A closed type device, comprising:

a heat radiating structure; and

a casing for encapsulating incorporated equipment,

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wherein the heat radiating structure includes a
ventilation hole formed in the casing and a composite sheet
attached to the casing so as to cover the ventilation hole,
and the composite sheet includes a carbon sheet including
non-woven fabrics and a layer of activated carbon sandwiched
40 between the non-woven fabrics and a fine-hole sheet having a
large number of fine pores superposed on the carbon sheet,
the composite sheet being attached to the casing with the
fine-hole sheet facing outward and carbon sheet facing
inward.

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7. A closed type device, comprising:

a heat radiating structure; and

a casing for encapsulating incorporated equipment,

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wherein the heat radiating structure includes a
ventilation hole formed in the casing and a composite sheet

attached to the casing so as to cover the ventilation hole, and the composite sheet includes two fine-hole sheets each having a large number of fine pores and a layer of activated carbon sandwiched between the two fine-hole sheets.

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8. A closed type device, comprising:
a heat radiating structure; and
a casing for encapsulating incorporated equipment,
wherein the heat radiating structure includes a
10 ventilation hole formed in the casing and a composite sheet
attached to the casing so as to cover the ventilation hole,
and the composite sheet includes a non-woven fabric, a fine-
hole sheet having a large number of fine pores and a layer of
15 activated carbon sandwiched between the non-woven fabric and
fine-hole sheet, the composite sheet being attached to the
casing with the fine-hole sheet facing outward and the non-
woven fabric facing inward.

9. The closed type device as claimed in any one of
20 claims 1 to 8, wherein a discharge hole is formed in the
casing at the opposite position to the ventilation hole and a
blower for introducing external air through the ventilation
hole and discharging the air through the discharge hole is
provided inside the casing.

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10. The closed type device as claimed in any one of
claims 1 to 8, wherein the casing has electrically conductive
property and the layer of activated carbon and casing are
electrically connected to each other.

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11. The closed type device as claimed in any one of
claims 1 to 8, wherein the ventilation hole is formed in a
part of an openable door of the casing.

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12. A closed type casing, comprising:
a heat radiating structure; and
a ventilation hole,
wherein the heat radiating structure includes the
ventilation hole and a composite sheet attached to the casing
40 so as to cover the ventilation hole, and the composite sheet
includes an outer sheet having air permeability,
waterproofness and dustproofness, an inner sheet having air
permeability, and a layer of activated carbon being
sandwiched between the outer and inner sheets, the composite
45 sheet being attached to the casing with the outer sheet
facing outward and inner sheet facing inward.

13. The closed type casing as claimed in claim 12,
wherein the outer sheet includes at least one fine-hole sheet
50 having a large number of fine pores.

14. The closed type casing as claimed in claim 12, wherein the outer sheet includes at least one fine-hole sheet having a large number of fine pores and at least one another sheet having air permeability.

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15. The closed type casing as claimed in claim 12, wherein the inner sheet is a non-woven fabric.

10 16. The closed type casing as claimed in claim 12, wherein the inner sheet includes at least one fine-hole sheet having a large number of fine pores.

15 17. A closed type casing, comprising:
a heat radiating structure; and
a ventilation hole,

20 wherein the heat radiating structure includes the ventilation hole and a composite sheet attached to the casing so as to cover the ventilation hole, and the composite sheet includes a carbon sheet including non-woven fabrics and a layer of activated carbon sandwiched between the non-woven fabrics and a fine-hole sheet having a large number of fine pores superposed on the carbon sheet, the composite sheet being attached to the casing with the fine-hole sheet facing outward and carbon sheet facing inward.

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18. A closed type casing, comprising:
a heat radiating structure; and
a ventilation hole,
wherein the heat radiating structure includes the ventilation hole and a composite sheet attached to the casing so as to cover the ventilation hole, and the composite sheet includes two fine-hole sheets each having a large number of fine pores and a layer of activated carbon sandwiched between the two fine-hole sheets.

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19. A closed type casing, comprising:
a heat radiating structure; and
a ventilation hole,
wherein the heat radiating structure includes the ventilation hole and a composite sheet attached to the casing so as to cover the ventilation hole, and the composite sheet includes a non-woven fabric, a fine-hole sheet having a large number of fine pores and a layer of activated carbon sandwiched between the non-woven fabric and fine-hole sheet, the composite sheet being attached to the casing with the fine-hole sheet facing outward and the non-woven fabric facing inward.

20. The closed type casing as claimed in any one of
50 claims 12 to 19, wherein a discharge hole for discharging external air introduced through the ventilation hole using a

blower provided in the casing is formed in the casing at the opposite position to the ventilation hole.

5 21. The closed type casing as claimed in any one of claims 12 to 19, wherein the casing has electrically conductive property and the layer of activated carbon and casing are electrically connected to each other.

10 22. The closed type casing as claimed in any one of claims 12 to 19, wherein the ventilation hole is formed in a part of an openable door of the casing.

15 23. A composite sheet comprising a carbon sheet including non-woven fabrics and a layer of activated carbon sandwiched between the non-woven fabrics and a fine-hole sheet having a large number of fine pores superposed on the carbon sheet.

20 24. A composite sheet comprising two fine-hole sheets each having a large number of fine pores and a layer of activated carbon sandwiched between the two fine-hole sheets.

25 25. A composite sheet comprising a non-woven fabric, a fine-hole sheet having a large number of fine pores and a layer of activated carbon sandwiched between the non-woven fabric and fine-hole sheet.